

METERING VALVE

Abstract of the Disclosure

5 A metering valve for metering dry powder material such as cement. The interior of the valve housing is expanded outward beginning at the sealing surface or lip located adjacent to the inlet opening, thereby forming an enlarged gap between the valve sleeve and housing to discourage powder accumulation in the gap and interference of large bulk particles and foreign materials with the

10 sleeve and housing. An eccentric intermediate sleeve aligns the valve sleeve relative to the housing prior to rotation of the valve sleeve by either moving the valve sleeve away from or toward the valve inlet. The valve sleeve has a rubberized layer to seal with the housing's sealing surface or lip. A sleeve shield blocks entry of powder into the mouths of the vacuum breakers to prevent

15 plugging of the vacuum breakers. Ball bearings are employed to suspend the valve sleeve within the housing, making the valve sleeve easier to rotate.